## WHAT IS CLAIMED IS:

- 1 1. A computer implemented method of loading pages of a
- 2 Java executable image, said method comprising:
- 3 mapping a read-only section of the Java executable
- 4 image stored on a nonvolatile storage device to an
- 5 address space located in a system memory;
- 6 storing mapping data resulting from the mapping in a
- 7 page map;
- 8 branching to an address within the address space, the
- 9 branching causing a page fault;
- 10 loading one or more pages from the nonvolatile storage
- device to the address space in response to the page
- 12 fault; and
- executing instructions included on the loaded pages,
- 14 the executing commencing at the address.
- 1 2. The method of claim 1 further comprising:
- 2 selecting, based upon a system paging policy, one or
- 3 more of the loaded pages; and
- 4 discarding the loaded pages.
- 1 3. The method of claim 2 further comprising:
- 2 branching to a second address that was included in one
- 3 of the discarded pages, the branching causing a second
- 4 page fault;
- 5 retrieving one or more of the pages from the Java
- 6 executable image stored on the nonvolatile storage

- 7 device, wherein the retrieved pages correspond to one
- 8 or more of the discarded pages; and
- 9 loading the retrieved pages into the address space,
- wherein the address space includes the second address.
- 1 4. The method of claim 1 further comprising:
- 2 receiving a request to load the Java executable image;
- 3 and
- 4 allocating the address space in the system memory
- 5 prior to the branching.
- 1 5. The method of claim 4 wherein the size of the address
- 2 space is less than the size of the Java executable
- 3 image stored on the nonvolatile storage device.
- 1 6. The method of claim 1 wherein the storing further
- 2 comprises:
- 3 writing one or more page addresses to the page map;
- 4 and
- 5 writing a nonvolatile storage location corresponding
- 6 to each of the written page addresses to the page map.
- 1 7. The method of claim 1 further comprising:
- 2 initializing the Java executable image by branching to
- 3 the address, wherein the address is the initial
- 4 address of the Java executable image.
- 1 8. An information handling system comprising:
- 2 one or more processors;

- 3 a memory accessible by the processors;
- 4 a nonvolatile storage device accessible by the
- 5 processors that includes one or more Java executable
- 6 images, the Java executable images including a read-
- 7 only section;
- 8 a tool for loading the Java executable images, the
- 9 tool including software code effective to:
- 10 receive a request to load one of the Java
- 11 executable images;
- allocate an address space in the system memory;
- map a read-only section of the Java executable
- image to the address space;
- store mapping data resulting from the mapping in
- 16 a page map;
- 17 cause a page fault by branching to an address
- 18 within the address space;
- 19 load one or more pages from the nonvolatile
- 20 storage device to the address space in response
- 21 to the page fault; and
- 22 execute instructions included on the loaded
- pages, the executing commencing at the address.
- 1 9. The information handling system of claim 8 wherein the
- tool includes software code effective to:
- 3 select, based upon a system paging policy, one or more
- 4 of the loaded pages; and
- 5 discard the loaded pages.

- 1 10. The information handling system of claim 9 wherein the
- tool includes software code effective to:
- 3 branch to a second address that was included in one of
- 4 the discarded pages, the branching causing a second
- 5 page fault;
- 6 retrieve one or more of the pages from the Java
- 7 executable image stored on the nonvolatile storage
- 8 device, wherein the retrieved pages correspond to one
- 9 or more of the discarded pages; and
- 10 load the retrieved pages into the address space,
- 11 wherein the address space includes the second address.
- 1 11. The information handling system of claim 8 wherein the
- 2 size of the address space is less than the size of the
- 3 Java executable image loaded from the nonvolatile
- 4 storage device.
- 1 12. The information handling system of claim 8 wherein the
- 2 software code effective to store the mapping data
- further comprises software code effective to:
- 4 write one or more page addresses to the page map; and
- 5 write a nonvolatile storage location corresponding to
- 6 each of the written page addresses to the page map.
- 1 13. The information handling system of claim 8 wherein the
- tool includes software code effective to:
- 3 initialize the Java executable image by branching to
- 4 the address, wherein the address is the initial
- 5 address of the Java executable image.

- 1 14. A computer program product stored on a computer
- 2 operable media for loading pages of a Java executable
- image, said computer program product comprising:
- 4 means for mapping a read-only section of the Java
- 5 executable image stored on a nonvolatile storage
- 6 device to an address space located in a system memory;
- 7 means for storing mapping data resulting from the
- 8 mapping in a page map;
- 9 means for branching to an address within the address
- space, the branching causing a page fault;
- 11 means for loading one or more pages from the
- nonvolatile storage device to the address space in
- response to the page fault; and
- 14 means for executing instructions included on the
- 15 loaded pages, the executing commencing at the address.
- 1 15. The computer program product of claim 14 further
- 2 comprising:
- 3 means for selecting, based upon a system paging
- 4 policy, one or more of the loaded pages; and
- 5 means for discarding the loaded pages.
- 1 16. The computer program product of claim 15 further
- 2 comprising:
- 3 means for branching to a second address that was
- 4 included in one of the discarded pages, the branching
- 5 causing a second page fault;

- 6 means for retrieving one or more of the pages from the
- Java executable image stored on the nonvolatile
- 8 storage device, wherein the retrieved pages correspond
- 9 to one or more of the discarded pages; and
- means for loading the retrieved pages into the address
- 11 space, wherein the address space includes the second
- 12 address.
- 1 17. The computer program product of claim 14 further
- 2 comprising:
- 3 means for receiving a request to load the Java
- 4 executable image; and
- 5 means for allocating the address space in the system
- 6 memory prior to the branching.
- 1 18. The computer program product of claim 17 wherein the
- 2 size of the address space is less than the size of the
- 3 Java executable image stored on the nonvolatile
- 4 storage device.
- 1 19. The computer program product of claim 14 wherein the
- 2 means for storing further comprises:
- 3 means for writing one or more page addresses to the
- 4 page map; and
- 5 means for writing a nonvolatile storage location
- 6 corresponding to each of the written page addresses to
- 7 the page map.

- 1 20. The computer program product of claim 14 further
- comprising:
- 3 means for initializing the Java executable image by
- 4 branching to the address, wherein the address is the
- 5 initial address of the Java executable image.